

KING EDWARD VII SANATORIUM MIDHURST

TWENTY-FOURTH ANNUAL REPORT

JULY 1929 to JULY 1930

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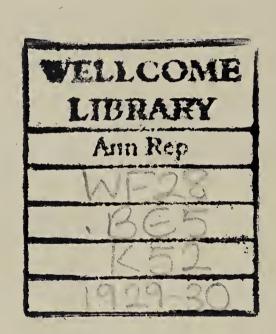
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KING EDWARD VII SANATORIUM MIDHURST

Twenty=fourth Annual Report JULY 1929 to JULY 1930

WO HUNDRED and ninety-two patients were admitted to the Sanatorium during the period of the present Report; 49 were re-admissions and 58 remained for a period of less than nine weeks. These 58, therefore, are not considered in the after-history records.

Two hundred and seven patients were discharged within the period and were classified as follows, according to condition on admission. (For classification see p. 9):—

Group	Ι	• •	 		• •	53
Group	II	• •	 • •		• •	117
Group	III	• •	 • •			· 20
Group	IV	• •	 • •	• •	• •	17

The number of applications for admission has been very satisfactory, with the result that the average waiting list has been higher—between 17 and 18 for men (as against 13 and 14), while the average for women—between 10 and 11, has been maintained.

One hundred and twenty-seven applicants for admission were examined by the Medical Superintendent; 98 (77.2 per cent.) were accepted and 29 (22.8 per cent.) were rejected as unsuitable according to the rules for admission.

Two hundred and seven patients passed through the Sanatorium within the twelve months as against 187 in the previous year. One hundred and seventy were classified as Groups I and II, and 20 were Group III cases. The remaining 17 came under Group IV, that is, they had no definite evidence of pulmonary tnberculosis.

These 17 were classified as follows:

Nothing definite found	• •	• •	• •		IO
Unresolved pneumonia					I
Thickened pleura only	• •			• •	4
Bronchiectasis	• •	• •			I
Pleurisy \(\bar{c} \) effusion \(\cdots \).	• •				I

The number of patients on whom artificial pneumothorax has been attempted in the Sanatorium since October, 1924, totals 98, and their after-history shows a very satisfactory result, as it will be seen on page 13 that 72 of the 98 have carried on their treatment after discharge from the Sanatorium, and of these, 63 are still alive. It is interesting that 44 of these have negative or no sputum. Thirty-two of the 63 cases have now stopped refills and 26 of these have negative or no sputum and are in good condition. This may be considered a good result, as all cases were positive before artificial pneumothorax was attempted, and their after-history is now followed up from three to six years after the induction.

The social side of Sanatorium life has been carried on on the same lines as last year, and has been arranged mainly through the General Purposes Committee of the patients, under the supervision of the medical staff. The wireless installation in every bedroom has proved a great boon, and it is believed that it encourages patients to carry out the rest in bed advised after prescribed exercise. Cinema programmes of recent issues have been shown once a week during the winter.

GENERAL STATISTICS.

The following Tables show an analysis of the 207 patients discharged during the past year, with regard to—

- (1) Place of Residence.
- (2) Occupation.
- (3) Age and Sex.
- (4) Married or Single.
- (5) Mode of Onset.
- (6) Duration of Disease.

TABLE I.—PLACE OF RESIDENCE.

Place o	f Res	idence	Number of Patients	Place of Resid	ence.	Number of Patients
London Surrey Yorkshire Lancashire Hampshire Sussex Essex . Middlesex Ireland Hertfordshire Wales . Staffordshire Berkshire			69 25 15 13 12 11 9 8 8 6 4 4 3	Buckinghamshire Kent Scotland Warwickshire Northamptonshire Isle of Wight Worcestershire Leicestershire Durham Oxfordshire Cambridgeshire Devonshire Cheshire	•••	3 3 2 2 2 1 1 1 1 1 1 1 1

TABLE II.—OCCUPATION.

Occupation	n	Number of Patients	Occupation -			Number of Patients
Clerks		43 41 8 7 6 6 6 5 5 4 4 4 4 4 4 3 3 3 3 3 2 2 2 2 2	Architects Surgeons Massueses Bankers Actresses Superintend Nurses Navy Actors Geologists Journalists Wireless Op Mechanics Musicians Surveyors Dispensers Directors Manageresse Inspectors Librarians Professors Builders Radiologists Clergymen Farmers Mannequins	erators		2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

TABLE III.—AGE AND SEX.

		Year	rs			Males	Fe	emales	Total
Under 20 20–25 26–30		• •	• •			5 22 27		9 13 14	14 35 41
31-35 36-40 41-45 46-50 Over 50	• •	• •		• • • • • • • • • • • • • • • • • • • •		20 19 11 5		20 17 4 5 6	40 36 15 10 16
		• •	TOTAL		••	119		88 -	207
			. ,	T	ABLI	E IV			
	Iarried ingle		• •	• ;	• •	• •	• •	••	108 99 ——
			Тарі	IE V	-Mo	DE OF O	NCET		207

	Mode	of Ons	set		Number of Cases	Percentage
Cough Influenza Pleurisy Hæmoptysis Other Modes	•••				92 27 22 20 46	44 · 4 10 · 6 13 · 1 9 · 7 22 · 2
					207	

TABLE VI.—DURATION OF DISEASE.

Average duration ... 2 years 2 months. I month—28 years. Extremes •,•

TABLE VII.—GENERAL RESULTS OF TREATMENT AS SHOWN BY THE CONDITION OF THE PATIENTS ON ADMISSION AND ON DISCHARGE FROM THE SANATORIUM DURING THE YEAR 1929-1930

Group on Admission	Number of Cases	Arrested	Much Improved	Improved	Stationary or Worse
I III	53 117 20	47 25	4 28 2	2 44 7	20 II
All Cases	190	72	34	53	31
IV	Patients in whom no definite evidence of Pulmonary Tuberculosis was found	Num- ber of Cases		12	3

GROUPS.—As in previous Annual Reports, the Turban-Gerhardt classification has been used to indicate the clinical condition of patients on admission. This classification, based on physical signs, is as follows:—

Group I.—Disease of slight severity, limited to small areas of one lobe on either side, which, in the case of affection of both apices, does not extend beyond the spine of the scapula or the clavicle, or in the case of affection of the apex of one lung, does not extend below the second rib in front.

Group II.—Disease of slight severity, more extensive than Group I, but affecting at most, the whole of one lobe; or severe disease extending at most, to the half of one lobe.

Group III.—All cases of greater severity than Group II, and all those with considerable cavities.

By "disease of slight severity," is to be understood, disseminated foci characterised by slight dullness, indefinite rough or weak vesicular, vesico-bronchial, or broncho-vesicular breathing, and fine and medium crepitations.

By "severe disease": massive infiltration recognised by definite dullness, broncho-vesicular or bronchial breathing, with or without crepitations.

Cases with signs of considerable excavation, giving rise to tympanitic percussion with amphoric or cavernous breathing and numerous coarse consonating rales, come under Group III.

Pleuritic dullness, if only of slight extent, is to be left out of account; if it is considerable, pleuritis should be specially mentioned under tuberculous complications.

The following terms are used to describe the condition of patients on discharge from the Sanatorium:—

- "DISEASE ARRESTED."—General health completely restored in every respect, without any sign of disease of the lungs except such as is compatible with a completely healed lesion. Sputum, if still present, free from tubercle bacilli.
- "Much Improved."—General health good. Physical signs of disease in the lungs, though much diminished, not entirely cleared up, e.g., limited to a few crepitations on cough only. Tubercle bacilli still to be detected in the sputum.
- "IMPROVED."—General health improved, but not restored. Physical signs of disease in the lungs still present, though less marked than on admission.
- "STATIONARY."—No appreciable improvement in the condition of the lungs or in the general health.

[&]quot;Worse."—General or local condition worse.

TABLE VIII.—DEMONSTRATION OF T.B. IN SPUTUM

On A	Admissi	on.		On Discharge				
				-				
Positive	• •		126	Positive			89	
Negative			40	Negative			68	
No Sputum	• •		24	No Sputum			33	
Group IV Ca	ses		17	Group IV Cas	es		17	
All Cases	s	٠	207	All Cases			207	
Number o	of Patie	nts wh	no lost T	Γ.B. in Sanatorii	um	37		

TABLE IX.—WEIGHT

V	Veigh	nt		Group I	Group II	Group III	Group IV
Gained Lost No Change Not Weighed			 	45 7 — I	87 26 — 4	13 1 1 5	6 —
All Ca	ses		 • •	53	117	20	17

REPORTS OF SPECIAL DEPARTMENTS.

REPORT OF THE THROAT DEPARTMENT.

All the 207 patients discharged during the year ending 30th June, 1930, were examined laryngoscopically by Sir St. Clair Thomson. Of these, in 183 the larynx was found to be normal, while in 22 there was found to be definite tuberculous disease. The results of treatment are shown in Tables X and XI.

Table X.—Showing the Result on discharge of Treatment in Patients suffering from Tuberculosis of the Larynx in whose Sputum Tubercle Bacilli were Demonstrated in the Sanatorium.

	Number of Cases	Cured	Much Improved	Improved	Stationary or Worse	Remarks
Group I Group II Group III	· · · · · · · · · · · · · · · · · ·	9 2			3	For cases treated with Galvano-
All Cases	22	II	2	6	3	Cautery, see Table XI

Table XI.—Showing Result on Discharge of Treatment with the Galvano-Cautery in Patients suffering from Tuberculosis of the Larynx.

	Number of Cases	Cured	Much Improved	Improved	Stationary or Worse	Remarks
Group I Group II Group III	 4 1			ı ı		
All cases	5	2	I	2		

One larynx was suspicious on admission, but normal on discharge, while one case was found to have molluscum fibrosum of the larynx.

AFTER-HISTORY OF ARTIFICIAL PNEUMOTHORAX CASES.

Between October, 1924, and the present date, artificial pneumothorax has been attempted in 98 cases, and carried on in 72 cases after discharge from the Sanatorium. The after-history of all cases has been followed to date.

These may be grouped as follows:—

Choice I.—Cases with involvement of one lung.

Choice II.—Cases with cavitation or much evident fibrosis of one lung, or with involvement of the better lung not beyond the upper third.

Choice III.—Cases "in extremis", e.g., with hæmoptysis.

Cases with bilateral disease—but with a possibility of aid by limited pneumothorax on the more active side.

In 26 cases it was not possible to carry out the treatment because of the failure to find a pleural space or owing to the presence of many adhesions. Sixteen of these fall under Choice II and the remaining ten under Choice III. Their after-history is as follows:—

	CHOICE II—TOTAL 16							
			ALIVE	DEAD				
	Ge	neral Condition	on General Condition					
		Good	Poor					
No space		3	2	2				
Pocket only		4	I	-				
Adhesions	• •	I		3				
		CHOICE III—	-Total 10					
			Alive	DEAD				
	Ge	neral Condition	on General Condition					
		Good	Poor					
No space			2	I				
Pocket only		I	_	I				
Adhesions	• •	<u> </u>		5				

In one Choice II case where no space was found, a phrenic evulsion was carried out. The patient's condition is now very good and he is at work.

In a Choice III case where no space was found, a phrenic evulsion and upper thoracoplasty has been attempted, and the general condition is now poor. In one Choice III case where a pocket only was found, a phrenic evulsion has been carried out and the general condition is good and the patient is at work.

In all, 72 patients were still having refills when discharged from the Sanatorium. The following is their after-history according to Choice:—

		F	ALIVE	DEAD	TOTALS
	Gener	al Conditio	on General Conditi	ion	
		Good	Poor		
Choice I		25	I	2	28
Choice II		27	6	3	36
Choice III	• •	3	I .	4	8
Totals		55	8	9	72

Four of these were Choice III cases "in extremis" with bilateral disease, and the operation was done in the hope that limited aid could be obtained on the more active side. The causes of death in the nine have been—lymphadenoma, one; influenzal pneumonia, one. Both of these were Choice I cases which seemed to be doing well until these complications arose. Advancing disease on the other side was the cause of death in the remaining seven.

Bilateral pneumothorax has been carried out on two patients who are still alive; in both cases this was done for progressing disease on the other side. It was necessary in both cases to re-expand the initial pneumothorax.

Phrenic evulsion has been carried out in two cases; in one for threatened re-expansion at the base, and in one for hæmoptysis which occurred on the completion of treatment. Both are now at work.

Of the sixty-three patients still alive, nineteen have positive sputum, but forty-four (70 per cent.) have negative or no sputum. Fluid has appeared at some time during the treatment in thirty-one (49 per cent.) of the sixty-three cases.

In thirty-two cases refills have now been stopped. They may be tabulated as follows:—

	SPUT	UM	
	Tb+	Tb−or No Sputum	Totals
Completed treatment	I	19	20
Obliterated: after fluid	2	3	5
Re-expanded—no fluid	I	2 ·	3
Gave up treatment		I	I
Stopped for advancing			
disease on the other side	2	I	3

Twenty-six of the thirty-two patients have negative or no sputum.

The following figures show the results in laryngeal disease, where pneumothorax was successfully induced:—

LARYNGEAL DISEASE PRESENT BEFORE A.P.T.

		_		T 0 0
I OMETER TO LIGHT		rm zz Imne	STOCK LOW	777 ST S ()
Larynx Hea	aieu Lai	VIIX IIIIDI (veu Lai	$\sqrt{\text{IIX}}$ 1.5.U.
		,		61

Choice I	 3		
Choice II	 5	2	I
Choice III	 	2	2

LARYNGEAL DISEASE DEVELOPED DURING A.P.T.

Healed

Choice I		 	 I
Choice II	• •	 	 ı (by Galvano-Cautery)

In one Choice II case where the larynx was eventually healed Galvano-Cautery had to be applied.

REPORT OF THE X-RAY DEPARTMENT.

Again we have to report a very definite increase in the work of the X-Ray Department. An increasing number of patients are returning for artificial pneumothorax refills, and as this necessitates careful control by screening, it is throwing more and very important work on this Department of the Sanatorium.

REPORT OF THE DENTAL DEPARTMENT.

The following was carried out from July, 1929, to June, 1930:—

Fillings		• •	 	119
Extractions			 	98
Scalings	• •		 	19
Dentures			 • *•	8
Repairs to Dentures			 	8

REPORT OF THE PATHOLOGICAL DEPARTMENT

The work of the Pathological Department has been continued on the same lines as previously, and during the year ending 30th June, 1930, over 2,000 laboratory tests, apart from routine fortnightly sputum tests, have been made. The adoption of the Sedimentation Test as a routine test has given interesting results.

Research.

1. The investigation of the filtrable stage of the tubercle bacillus has been continued. Forty-three guinea-pigs in three generations have been inoculated with filtrates of tubercle bacillus from various sources and the resulting inflammations examined.

The results, so far, in agreement with those of other observers, show that such filtrates do not produce a true tuberculous inflammation and no tubercle bacilli have been demonstrated.

2. At a suggestion of Dr. Stanley Griffith, of Cambridge, extensive cultures of positive sputa are being made in an attempt to find cases of phthisis showing tubercle bacillus of a bovine, and not human, type, which according to him is more common than is usually supposed. So far none have been found.

REPORT OF THE STATISTICAL DEPARTMENT.

The work of the Statistical Department has been carried out on the same lines as in previous years (see Annual Reports, V, XI and XII). The number of patients discharged from the Sanatorium up to date is 5,502. This number does not include Group IV cases, re-admissions or patients who were in residence too short a time to be included in the records. Those about whom information could not be obtained number 134, or 2.43 per cent.

The statistics of the ultimate results of the enquiry are shown in the following tables:—

Table Al.—Statistics of Ultimate Results

Cases in the Sputum of which T.B. were demonstrated in the Sanatorium All cases considered together

1	teol ratio	1dgie	4	5	3	2	7	IO	H	5	3	2	3	4	7	n	3	61	0	H	Η	н	7	Н	н	
	r Dead		92	159	101	150	159	157	120	135	146	123	144	126	112	121	121	121	98	92	19	40	24	5 6	13	
	-	1930	29	42	41	37	$\frac{3^{1}}{2}$	3^{I}	33	37	44	29	65	54	62	72	73	53	29	73	99	73	101	94	104	
		1929	29	44	42	39	32	31	33	38 20	45	30	67	5.8	81	74	73	62	74	81	72	80	601	103		_
		1928	30	44	43	42	35	32	33	43	49	33	69	62	84	81	74	69	80	16	79	68	115		1	
	3e	1927	30	46	45	43	36	33	35	43	53	35	73	64	98	85	81	92	89	66	96	97	1		.	
	scharg	1926	31	50	45	47	38	34	35	46	55	35	74	62	92	16	89	92	100	112	901		1	1	1	I
	each successive year after Discharge	1925	33	52	47	48	39	40	40	47	19	38	79	70	66	100	96	III	114	124						
	rear af	1924	34	55	48	49	44	43	42	49	19	41	79	69	102	OII	911	127	135			1		1	١,	
	ssive 3	1923	34	54	48	51	47	44	45	55	89	48	89	80	112	126	141	150	1			1				
	succe	1922	36	54	52	53	47	46	48	9	71	51	66	82	121	140	156	-			1	1	1	1		
)	_	1921	34	5.8	55	56	48	50	49	89	75	57	105	95	3	165	i			1	1		1			
	Alive" ir	1920	39	59	56	19	56	54	52	75	83	65	911	115	165	1	1		1		1		1	1		
	or " Ali	6161	38	63	9	09	19	55	49	75	83	68	127	118	1			-	1	1			-	1		
		8161	42	72	62	69	69	89	167	82	104	93	99	!	1		1				1		1	1	1	
	Number reported "Well"	2161	42	75	67	71	72	72	75	86	1117	105	1	1	-	1		İ	1	1	1	1	1			
	orted	9161	. 46	70	64	73	73	94	78	84	123		1	1	-		1		-		-	-	Ì	-	1	
	r repc	161	47	70	5.5	69	74	81	94	118	1		<u> </u>			-				-	 		-		-	
	mbe	3 1914	38	72	64	75	88	95	113				İ				-					-		1	-	
	N Z	161	42	71	70	90	92	III		-			1		-				-	-	!	1	-			
		1912	56	94	93	112	133				-	`						1					-	1		
	, 	1161	65	211	011	138	1	1	1	-	-			-	1	1	-	-		İ	İ		1	1		
		1910	73	129	154	5	-				1	1	1	1	-	-	1	1	1		1	1	1	1		
		6061	82	641	2		[1			1			-					-	1			-	1	
		1908	0.4	+	-		-	-		-		1	-		1	-							1	1		_
		Num Discha	125	206	205	192	197	861	160	177	193	154	212	184	861	961	197	176	165	991	128	114	127	121	811	
	Year	Dis- charge	1006/07	1907/08	1908/09	01/6061	11/0161	1911/12	1912/13	1913/14	1914/15	1915/16	1916/17	81/2191	61/8161	1919/20	1920/21	1921/22	1922/23	1923/24	1924/25	1925/26	1926/27	1927/28	1928/29	

Table A2.—Statistics of Ultimate Results

Cases in the Sputum of which T.B. were demonstrated in the Sanatorium Group I considered separately

ni io	odmuN Jagis 191	7	2	1	33	7	2	1	Н	7	1	I	1	Ι	1	П		1	1	Ι	1	1	1	-
	odmuN 1 ni	91	21	14	24	30	17	6	OI	6	9	9	5	1	6	15	10	∞	5	4	I	Η		1
g sking	1930	12	22	14	91	13	OI	9	∞	6	6	17	OI.	6	20	29	15	21	17	10	IO	21	15	13
	1929	12	23	14	17	13	OI	9	∞	6	OI	17	II	6	20	29	18	22	18	II	IO	22	15	
	1928	12	23	14	61	15	IO	9	6	6	II	91	12	6	20	30	61	24	18	12	II	22	1	
 Φ	1927	1.2	24	14	61	17	IO	9	OI	OI	II	18	12	6	20	32	21	25	61	13	II	1	1	
scharg	1926	13	24	13	21	17	OI	9	OI	OI	II	19	12	6	22	34	. 21	27	20	15	1	1		1
ter Dis	1925	14	24	13	22	17	12	∞	OI .	12	II	20	12	6	24	34	22	28	21	1	1		1	
each successive year after Discharge	1924	14	26	13	22	20	12	∞	II	12	II	20	II	6	56	38				1	1	1	1	
ssive y	1923	14	26	13	23	22	12	~	II	12	II ·	22	II	6	25	30	25	1	1	1	1		1	
. succe	1922	15	25	14	25	22	13	∞	10	12	II	22	II	OI	27	42	1	1	1	1		1	1	
	1921	14	27	14	25	22	13	∞	13	II	12	22	12	OI	29	1				1	1		1	
Alive" in	1920		28					7				23					1		1	1	-	1	1	
or "Ali	1919	91	27	15	25	28	15	6	14	12	II	22	12	1			1		1	1	1	1	1	
11 " 0	1915 1916 1917 1918		32														1						1	
Number reported " Well "	1917	10	32	15	30	29	20	II	91	17	15		1		1								1	
rted	1916	17	29	15	29	30	20	12	14	91									1					
repo	1915	17	30	12	25	28	20	14	17									1	-					
nber	1914	14	28	91	27	31	21	14					_	1										
Nu	1913		27						1	1	1	1	1]	1		1	1			1	1		
	1912	20	31	20	37	41]]			1		1	1					1	1		
	1161	20	35	23	39	1			1	1		1	1	1	1			1	1		1	1		
	0161	21	40	26		1	1						1	-			1	1	-		1	1		
	1909	23	43	1					1			1		.				1	1			1	-	
	1161 0161 6061 8061	27	-		1	1	1			1	*	1	1	1	1			1			1	1		
	Num	30	45	28	43	45	33	15	61	20	91	24	15	OI	29	45	25	29	22	15	II	22	15	13
Year	Dis- charge	20/9061		1908/09		11/0161	1911/12	1.912/13	13/1	4/I	15/I	21/9161	/	8/1	2	1920/21	I/2	7	1923/24	1924/25	1925/26	7	1927/28	2

Cases in the Sputum of which T.B. were demonstrated in the Sanatorium Group II considered separately

	ni 10	odmuN tagis		7 6	· "	6 61	5	9	ĭ	4	Ι	1	I	3	3	I	2		1	Ι		1		-		
		Mumber 1 ni	H	41 66	62	76	80	84	75	67	69	19	59	49	47	38	36	31	II	13	24	II	∞	∞	1	,
		1930	+	4 L	24	21	15	20	25	24	29	OI	39	34	48	30	24	17	17	15	3.5	35	61	9	70	6/
		1929		48	25	21	16	20	25	26	30	OI	40	36	50	31	24	19	81	17	39	38	63	61	-	
4 5 1		1928	1	$\frac{1}{2}$	26	22	91	21	25	29	33	12	42	38	53	35	24	23	21	21	43	40	99		-	
		1927	1	15 TO	2 0 0	23	91	21	25	28	36	12	43	38	55	39	56	23	21	22	50	42	-	1		
	, e	1926	1	15.	29	25	18	22	25	31	36	12	43	36	56	42	28	27	23	25	52			-		
	successive year after Discharge	1925	9+	23	31 31	24	19	25	28	32	39	14	46	41	59	43	31	31	24	26	-				-	
	ter Dis	1924	Į į	1.7	31	25	21	28	29	34	38	17	44	40	09	46	38	35	27	.	1	1	1		1	
	ear af	1923	į į	7.7	31	25	22	29	32	40	43	22	50	48	64	48	47	43		1	1	1	1		1	
	sive y	1922		77														1			1		1	1	-	
4	sacces	1921		7.7																1]	-			1	
	each	1920		2.4												1		1			1	1	1		-	
	Alive" in	6161	OX 1	28	34	28	29	34	33	51	57	35	72	63			1	1			1		1	1	İ	
	" Ali	8161	() H	19 32	36	32	35	38	45	54	69	49	89					1			1	1	-	1	1	
1	", or	7161	×	2 5	40	33	37	41	51	55	74	54	1	1]	1	1		-	1	ļ	-	1	1	
	Number reported " Well	9161	C	2 K	380	36	37	43	53	54	74	1			1	1	1			1	1			1	-	
	ed "	1915		44 3I	32	36	40	49	89	74	1	1			1	1	1	1	1	1]			1	-	
	eport	1914	Ø.	32	37	38	49	59	77		1		1	1			-	1	1		1	1	1	1		
	ber r	1913	2	32	34	44	43	65		1	1	-	1	1	-		1	1	-	1			1	1		
	Num	1912	-	31	48	59	89		1	1]		1					1			1]	-	
		1161	t	 75 76	59	69	Ī	1					1						-	.1	1	1		1		
		0161		4 ر ا	82			1	1	1				1	1	1				-				-		
		1 6061	l.	45 69	<u> </u>	-									1	.				<u> </u>		1	 			-
		908		ر ا	-	1	1	-	1			_ 			-					1				-		
		Mum Discha	r t	0 √ 	94	66	001	OII	IOI	95	66	71	66	98	86	69	62	48	28	29	59	46	69	69	98	
	Year	Dis- charge	20/9001		908	01/6061	11/0161	1911/12	1912/13	1913/14	914/I	915/	Ži/9161	$1/\overline{L}16$	1/816	1919/20		1921/22	1922/23	7	4	25/2	6/2	1927/28	28/	-

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Table A4.—Statistics of Ultimate Results

Cases in the Sputum of which T.B. were demonstrated in the Sanatorium

Group III considered separately

oer lost t of in oso	dgie	1	н			1	2	1			٦	H	н	3	7	1	7		1		I	7		П	
er Dead		3.5	72	80	50	49	52	42	2,8	68	56	79	72	65	74	<u>7</u> 0	80	79	74	33	28	15	18	9	
	1930	~	0 K) (r)	,	~	ЭН	2	٧٢	9	IO	6	IO	22	22	20	21	59	41	21	28	19	6I	12	
	1929	n	0 K) (C	ЭН	Υ	ЭН	7	4	9	IO	OI	II	22	23	20	25	34	46	22	32	24	27		
	1928		n in	J (() H) H	2	v	7	OI	II	12	22	26	20	27	35	52	24	38	27	.		
	1927	C	n (1	ی در	→ ר	1 0) (I	4	- v	7.	12	12	14	22	26	23	32	43	58	27	44		1	grana	_
harge	1926	C	ນ ∠ 		ר כ	1 0	O 61	4	⊢ ւ Ր	0	12	12	14	27	27	27	44	50	29	39		İ			
r Disc	1925	C	א ני	ی در	2 0	י ו	n (r) 4	⊢ ਪ	OI	13	13	17	31	33	31	58	62	77	1		1	1	1	
ır afte	1924	C	n v	J 4	+ 0	1 0	n «	ט ע) 4	II	13	15	18	33	38	40	69	80		1			1	1	
ch successive year after Discharge	1923		Υ u	U Z	+ 0	ۍ د	O ((ט ע) 4	13	15	17	20	39	53	54	82	1					1	1	
uccessi	1922	•	4 n	0 1	_ <	1 c	0 Z	- и) r	13	91	21	21	42	58	58			1			1		1	
each sı	1921	(n (×	, ,	1 c	U II	26	×	13	17	21	29	54	73				1		-	1	1		
in	1920		4 1	~~) u	<u>ں</u> ر	n	2 5	\ \ \	H3	61	28,	36	69				1			-	-	1		
'Alive'	6161		4 t	, T T	7 9	> •	4 u	2	0 1	14	22	33	43	9		1	1	-	1	1	1	1	1		
" or "	8161	1	rΩα	11	1 (•	4 TT	10	7 1	10	30	7,3	3		1	1	1	-	-		1				
Number reported "Well"	1917	1	rU 0	0 0	1 0) V) <u> </u>	+ C	C t	26	36	,	1		-	1				1		1			
pe pe	9161		0 0	0 1	7 7) V	13	L)	13	2 2	3	-	-			1				-					
port	1915		0	ر ا	77	0 4	0 6	1 0	7 10	/	1		-		-	1		-	1			ļ	1		
ber re	1914		9	7.7		20	0 4	C + C	1		1			1	1					-	}		1	-	
Num]	1913		5	12	13	7.7	ر ا	ן ע			1	1	[1		İ	1	-		1				
	1912		9 0	O C	7 7 7	01	17		1						1		1	1	-				į	-	
	1911/1912	(∞	22	31	25					1		1	-				-							
			12	200			İ		1					-	1	-	1	-	-	1				1	
	0161 6061		14	37		1	1								-	.									
	1 8061		17		1	1				1				-	1		1	-				-		1	
	ImuN Sischa		38	70	83	50	52	55	44	03	47	~ ×) X	60	80	00	103	10801	1 7 5) H) (19	
Year	Dis- charge		Zo/9061	80/2061	60/8061	۳.	Ţ/	ጚ、	Ţ,		<u>, </u>	<u> </u>	<u> </u>		12	2	5	2	5	1 5	1 C	1 5	1 C	1928/29	

TABLE A5.—STATISTICS OF ULTIMATE RESULTS

Cases in the Sputum of which T.B. were not demonstrated in the Sanatorium

All cases considered together

	idgis 193	2	5	5	9	7	3	7	н	7	4	7	5	9	I	7.	3	I	ı	4	. 1		1	
r lost	or ni						_															2		3
	Number		91					_				<u>.</u>												
	1930	14 14	30	39	36	30	25	22	33	20	37	47	89	96 :	62	63	73	36	56	62	63	39	54	50
	1929	91	31	40	36	30	25	22	32	20	40	47	89	66	63	62	75	38	58	62	65	39	54	
	1928	18	32	39	37	30	27	23	32	21	41	49	92	66	65	9	78	40	59	99	67	39		
	1927	18	32	37	38	30	27	23	34	20	42	49	95	IOI	99	19	79	43	9	89	67	1		
harge	1926	17.	33	39	39	31	27	23	34	20	43	50	98	102	89	63	81	44	63	71		1		1
er Disc	1925	91	33	43	40	31	27	23	34	21	44	48	0	ro3	89	64	. 82	44	65		1	1		1
ar afte	1924	18	34	43	41	32	27	24	33	22	43	48	97	104	71	64	84	46	1				ļ	
successive year after Discharge	1923	. 8I	34	43	42	30	27	25	33	22	44	47	98	107	72	99	92							1
uccessi	1922	81	36	42	42	31	27	24	32	20	45	50	95	109	74	99	1	1			1			1
each sı	1921	18	35	44	42	33	27	25	33	23	44	47	102	112	75		1			1	1		1	
or " Alive " in each	1920	19	37	44	43	34	31	56	35	24	47	53	105	115	1					1	-	7	-	
' Alive	6161	21	38	43	43	34	29	24	33	31	47	53	801	1			1			1			1	
	8161	21	39	44	49	37	36	28	36	29	51	56		1				1		1			1	
Number reported " Well "	1917	61	40	40	49	38	36	28	37	30	53	1						1					-	
, pe	9161		.37														.	1	1	1		1		1
porte	1914 1915 1916 1917	91	35	40	42	37	36	28	37		1						-	1			1			1
ber re	1914	14	34	47	84	38	32	29				1		1			Ì	1			1		-	1
Num	1913	15	33	33	44	32	36		1		1						1	1			1	Į	1	1
	1912	18	40	41	49	42	1	1	1		1				1		1				1		1	1
	1161	19	45	45	54		1		1		1				1	1	1				1		1 .	-
		19	47	57	1	1		1	1		1	-	1			1		-	1			1		
:	6061	20	49	1			1			1	1		l		.	1	1					1		
	0161 6061 8061	23	1		-	1				1				1	1				1		1	1	1	
	Num	24	51	99	59	48	48	31	41	35	59	58	117	611	78	99	93	51	99	72	70	41	55	53
Year	Dis- charge	70/9061		60/8061	01/6061	11/0161	1911/12	1912/13	1913/14	1914/15	1912/16						1921/22	9221	923/	924/	2	926	1927/28	928/

TABLE A6.—STATISTICS OF ULTIMATE RESULTS

Cases in the Sputum of which T.B. were not demonstrated in the Sanatorium

Group I considered separately

ber lost t of in oge	dgie	νω4να α
er Dead 1930	•	4000HV447V48HVV48HH
	1930	H 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	1929	1 4 4 4 4 1 4 4 4 4 4 4 4 4 4 4 6 1 4 4 4 4
	1928	1 2 2 2 2 1 1 2 1 2 2 8 4 8 4 4 4 2 6 8 4 8 4 8 4 8 4 8 4 8 4 8 8 8 8 8 8 8
	1927	1 2 2 3 3 3 5 5 5 6 7 5 6 7 5 6 7 6 7 6 7 6 7 6 7 6
harge	1926	1 2 2 8 4 1 2 1 2 8 4 4 4 4 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
r Disc	1925	H 2 2 8 8 4 H 2 H 2 H 2 C S S S S S S S S S S S S S S S S S S
ar afte	1924	4 2 2 2 2 1 2 1 2 2 1 2 2 4 4 4 5 2 1 2 2 1 2 2 2 2 1 2 2 2 2 2 2 2 2 2
successive year after Discharge	1923	41 22 2 3 3 4 5 1 1 2 2 1 2 3 4 5 5 2 1 2 2 4 5 5 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
nccess	1922	E 2 2 8 2 4 H 1 2 4 8 4 8 4 4
	1921	12 2 2 2 2 3 3 4 5 1 1 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Alive " in each	1920	4 4 8 3 3 3 3 3 3 4 5 4 5 4 5 4 5 6 5 6 6 6 6 6 6 6 6 6 6
' Alive	6161	15 47 10 10 10 10 10 10 10 10 10 10 10 10 10
" or "	8161	15 25 33 34 17 17 17 17 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19
Number reported "Well"	161	13 26 25 35 31 15 11 15 11 15
ed "	9161	13 23 34 31 13 11 13 13 13 13 13 13 13 13 13 13
port	1915	11 22 2 3 3 0 2 3 3 0 2 3 3 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ber re	1914	100 1
Num]	1913	100
	1912	13.
	1161	14 4 7 3 3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4
-	016	- 11 11 11 11 11 11 11 11 11 11 11 11 11
	0161 6061	114
	18061	91
	Numl Discha	0 H & & 4 & & H & & & & & & & & & & & & &
Year	Dis- charge	1906/07 1907/08 1908/09 1909/10 1911/12 1911/12 1912/13 1913/14 1913/14 1913/16 1916/17 1910/20 1920/21 1922/23 1923/24 1923/24 1923/24 1923/24 1923/26

Table A7.—Statistics of Ultimate Results

Cases in the Sputum of which T.B. were not demonstrated in the Sanatorium

Group II considered separately

		-																						
ni 10	o tdgis 1dgis Eq1	2	I	н	П		3	1	1	ı		0 01	3	61	1	8	7	1	1	1		1	1	
Number Dead oge ni		8	6	12	9	4	II	2	4	٠.	01	7.	15	7	. 71	1	5	4	н	2	4	- н	Ι	23
	1930	~	,∞	12	∞	9	9	7	7	.∞	01	17	41	62	81	12	21	5	14	16	15	OI	17	17
	1929	4	. 6	12	∞	9	9	7	7	.∞	II	81	41	63	18	13	22	9	14	16	17	io	17	1
	1928	4	. 6	12	∞	9	∞	7	7	. 6	ΪΙ	17	43	19	61	13	25	9	14	17	61	01	1	1
	1927	4	6	II	∞	7	∞	7	7	6	12	17	45	62	61	13	56	7	14	18	61	1	1	1
harge	1926	3	01	12	∞		∞	7	7	6	12	18	47	64	61	13	27	7	14	18	1	1	1	1
r Disc	1925	3	01	14	∞	7	∞	7	7	6	14	18	47	64	18	13	27	7	14		1	1	1	
ır afte	1924	4	01	14	6	~	<u>~~</u>	7	7	6	14	17	47	99	20	13	26	∞					1	1.
ve yea	1923	4	10	14	0	9 0	∞	7	7	6	15	81	848	- 89	20	14 	28			1				
successive year after Discharge	1922	5	12	14	6		 χο (<u> </u>		∞ ×	15	19 61	χ +		20	14		1					1	1
	1921	7.	12	14	6	7	<u></u>	×	7	01	15	61	20	02	20		1					1		
or "Alive" in each	1920	5	12	15	0	7	01	× 0	χ Σ	0,	91	20	510	20]	İ		1	1			1	
, Alive	6161	9	13	15	6	<u>~</u> 0	00	ρ 1		01	15	22	55							1			i	1
	8161	9	I3	15	77	ρ,		00	0	13	01	23												
Well	21619	9	13	14	- 		- 			13 -	61								1					
rted "	15 1916					6 5				- I3		 			<u> </u>								 	<u> </u>
Number reported "Well"	1914 1915	5		5 14 11				ν), 	 	 	 		 	<u> </u>			<u> </u>	 		 	 	 	
lumbe	21 8161	5.		41			++		 	<u></u>	 	 		 	 					 		-	'- 	
Z	1912	2,	13	L 3	- ×	- -																		
	1161	5	14	12	C														١					
	0161 6061	5,	200	2					_									1		-				
	8 190		2		-	1	1				-		-		1	-	1		-	1				
psrged	06 I 08 O O O O O O O O O O O O O O O O O O	×27 6	ا د د	ر ر		0	0		-	- ~) =	+ 0	71 —	0	4	-∞	6	٦.	, xx	0		000		\ \
mber			- 4	· H	H	6		Н	H		2		7	- 01	ı	- 7		I	H	<u> </u>	H			
Year of Dis- charge		70/9061	1908/09				/I			I/I	1/9I	1//1	1918/19	19/2	20/2	921/2	922/2	3/2	7/2	1925/26	926/2	27/2	928/2	

Table A8.—Statistics of Ultimate Results

Cases in the Sputum of which T.B. were not demonstrated in the Sanatorium Group III considered separately

ni 10	odmuN o tágis Ee1	}	-	·	1	1	1	1	1	H	1	1	1	-	i	1	1	1	1	1	ì	1	1	1
	rədmuN 21 ni		-		7	Н	8	I.	I	8	· "		٣.	,∞	5	1 -	7	٠,	9	Н	7	1	1	н
	1930		0 0	ЭН	0	0	0	64	Ι	0	Н	0	4	- 4		4	7	4	. 4	4	5	10	8	н
	1929) c) н	0	0	0	2	Н	0	Н	0	4	. 4	4	4	7	4	· 1()	4	5	۲.	8	1
	1928) C	Н	0	0	0	2	Ι	0	Н	0	4	· iC	20	4	7	5	9	4	5	5		1
	1927) C) Н	٥	0	0	2	ı	0	Н	0	4	. بر	. ro	4	7	5	9	4	5	1	1	1
harge	1926) (Н	П	0	Н	2	Н	0	2	0	5	ı,	. 9	4	7	2	7	5	1			1
r Disc	1925	C) C	Н	П	0	Н	. 2	Н	0	C4	0	2	52	9	4	7	2	∞ '	1				1
ar afte	1924.	C) -	. н	Н	0	Н	2	H	Η	7	0	5	9	9	4	6	2	1			1		1
successive year after Discharge	1923	C) -	Н		0	H	3	H	Н	61	0	5	9	9	4	14	1						
uccessi	1922	C	ЭН	Н	Н	0	H	33	ĭ	Ι	7	0	5	∞	9	4	1					1		1
	1921	C	> н	- н	Н	0	0	3	Ι	6	7	0	9	II	∞				1	1]		1	1
or "Alive" in each	1920		ЭΗ	Η	Н	0	I	3	Н	2	2	0	9	13				1	1		1			1
" Alive	6161	C	0	Н	Н	0	I	2	Н	2	က	0	9]		[1		1	
1	8161		> ∺	Ι	8	0	Ι	හ	H	0	3	0	1				1	1						
Number reported " Well"	1915 1916 1917 1918			·,	2			2			3			1				-						
rted '	19191	0		I I	I, 2			2 2					-	_	1	 -	-		 			 -		
r repo	1914 191		0						1	 	-	-] 	 	 	 	 	 	 		 	1	 	
umbe	61 8161	0	0	Н	7	ı	Η	-		- 	<u> </u>			 	<u> </u>	<u> </u>	<u> </u>	 - 	<u> </u> 	 	<u> </u> 	<u>-</u> 	- 	<u> </u>
Z	91216	0	^1	1	21	-			<u> </u>		- 	1		1		 	 	1			<u> </u>	<u> </u>		
	11161	0	्र	I	7						i		1			1						1]
	1910	Ö	. 4	H			1		1	1]			1		
	1908 1909 1910 1911 1912	H	. N							1			1	1									1	
	1908	Н								1				1								1		1
	Mumber Discharged		. 4	. 2	~	н .	01	<u>.</u>	61	4	4	0	7	$\tilde{1}_{\tilde{3}}$	∞	4	14	7	01	J. 1		5	7 (.7
Year	Dis- charge	. 20/9001		60/8061											1919/20								1927/28	0

Cases in the Sputum of which T.B. were demonstrated in the Sanatorium TABLE BI.—STATISTICS OF ULTIMATE RESULTS

Condition in 1930		Alive Dead Lost sight of	Alive Dead Lost sight of	Alive Dead Lost sight of	Alive Dead Lost sight of	Alive Dead Lost sight of	Alive Dead Lost sight of
	67/8261	6	н	0	H	20 I	17
	82/7291	01	7	н	0	1 7 7 1 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1	21 1
	42/9261	01	7	4 H		15 	21
-	92/5261	8 H ,	I	н		5	12 I
	Sz/tz61	Ган	9	нн		7	81
	tz/2361	III	4 4		-	00 01	7 10 10
	£z/zz61	12	9			7 8	6 %
	22/1261	0 4	5			44	13 19
ar	12/0261	22 I I	12	I	I	9 8	14 27 2
during the Year	02/6161	10 I	8 7	2 H		8 1	18 29 1
ng th	61/8161	3	5	H		∞	35
	181/4161	H 61	27	H	нн	3 8	23 30 2
urged	41/9161	9 8	8 H	1	I	2020	29 35 1
Discharged	91/\$161	9 7	1 4 н		0	9 20	30
	\$1/4161	ω r∪ H	J & & I	1	H	1 × × ×	19 35
	t1/£161	w 4	4 4 H		H	5 9 1	15 32 3
	1912/13	mm	00		H	8 15	12 24 1
	21/1161	то∞ н	4 T I I I		+ +	9 11	7 37 1
	11/0161	0 5	7 20 1	+ +	4	2 8 4	6 42 8
	01/6061	4∞ H	111	3	1 2	8 C H	10 34
	60/8061	122	9 0		0	8 4 1	13 23 1
	80/2061	9 2 2	111	1 T	0	%	16 30 2
	20/9061	000	46			m m	10 21 1
Condition on	Discharge	Disease Arrested	Much	Improved	Stationary or Worse	Disease Arrested	Much Improved
Con	-simbA nois		1 dn	II			

4 4 4 4 4 4													
Alive Dead Lost sight of	Alive Dead Lost sight of	Alive Dead Lost sight of	Alive Dead Lost sight of	Alive Dead Lost sight of	Alive Dead Lost sight of	Alive Dead Lost sight of							
29	13		н	7	441	104 13 1	118						
16	9 6 1	н	9 7	8 10	4 I I	94 26 1	121						
24	4.9	н	د ا ا	14 6	1 6 2	101 24 2	127						
13	10,10		IO	13	У∞ н	73 40 1	114						
9 10	1 2	н	5	13	1 6	99 19 1	128						
		7	31 36	28	6	73 92 I	166						
н		38	23	24	9	67 98	165						
121		44	12 51 1	5 20 I	10	53	176						
H 4	2	40	10 26	34	∞	73 121 3	197						
40	2	1 2	12 25 1	7 30 1	18	72 121 3	961						
4 7 I	1 /		18 29 2	17 1	19	79 112 7	861						
<u>1</u> 20	1 8 H		8 1 1	21	2 4	54 126 4	184						
9 0	3 IO		6 27 1	26	25.3	65 144 3	212						
I 3	I 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	+	9 14 1	I 13	188	29 123 2	154						
н %	481		I 91	2 7 1	32	44 146 3	193						
4∞	18		09	0	41	37 135 5	177						
3	19	1	9		24	33 126 1	160						
3	I 20 2	1 1	6	13 I	32	31 157 10	861						
I 12	18		9 6	17	1 23	31 159	197						
3 21 1	91			181	21	37 150 5	192						
22 1	18	1 8	1 6	272	24	41 161 3	205						
15	18		18	21	33	159 5	206						
1 11	9 1		1 0 0	IOI	17	29	125						
Improved	Stationary or Worse	Disease	Much	Improved	Stationary or Worse	Summary	TOTAL						
dnoz	0		.III.	Group									

TABLE B2.—STATISTICS OF ULTIMATE RESULTS

Cases in the Sputum of which T.B. were not demonstrated in the Sanatorium

Alive Dead Lost sight of Lost sight of Lost sight of Lost sight of Lost sight of Lost sight of Condition in 1930 Alive Alive Alive Dead Alive Dead Dead Alive Dead Dead 3 24 62/8261 27 10 82/7291 22 I 3 Lz/9z61 ∞ m | 34 1 3 92/5261 33 92/4261 ∞ 32 42/8261 £z/zz61 5 18 2 H 22/1261 10 12/0261 10 34 3 KH 3 02/6161 Discharges during the Year 30 2 I 2 2 2 23 3 61/8161 9 81/7191 ∞ 24 3 1 18 12 41/9161 7 25 6 1 91/\$161 3 81/4161 4 7 1 17 †1/£161 0 0 0 3 10 2 2 1912/13 0 45 3 4 8 21/1161 23 11 4 4 Н 7 11/0161 1000 m 4.4 01/6061 2**1** 8 10 G H 3 60/8061 130 1 S H 80/7091 Stationary Discharge Improved Improved improved Disease Arrested Arrested Disease Condition on or Worse Much Much -simbA nois Group 1 II

Alive Dead Lost sight of	Alive Dead Lost sight of	Alive Dead Lost sight of	Alive Dead Lost sight of	Alive Dead Lost sight of	Alive Dead Lost sight of	Alive Dead Lost sight of	
2	2 H			I		300	53
0	H H		0			54	55
8		н	I	m		39	41
C H	ī	8	H	H 2		63	70
ан		H	m			62 4	72
+	HH	2 4		C H		56 11 1	89
0		3	нн			36 14 1	51
		2 4	H	н с		73	93
н	H	0.	H	н		63 1	99
40		H	04			62 15	78
H 2	4 H	н	m m	0	Гвн	96	611
44	0 0 1	1	2 0	н		23	117
2 н						74 6 8	58
H	В н		н	0	H	37 18 4	59
H					0	20 13 2	35
е н			H			33 7 1	41
H []	0	H	H H			21 - 21	31
H	H			- H		25 20 3	48
	I					30 16	48
	H		H	H		36 17 6	59
001	1 2		н н]]			39	99
Ι			НН			30 16 5	51
						41 2	24
Improved	Stationary or Worse	Disease	Much	Improved	Stationary or Worse	Summary	TOTAL
Group			III dr	Grou		Andrews	



